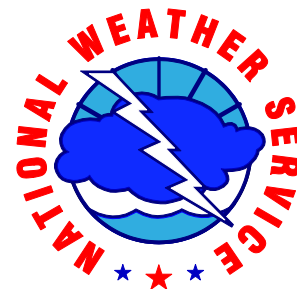


# WSR-88D Data Status And Plans

Tim Crum, Ph.D.  
NWS Focal Point For WSR-88D Operational Issues  
Tim.D.Crum@noaa.gov

13 January 2005  
National Weather Service  
Family Of Services/Partners Meeting  
San Diego, CA





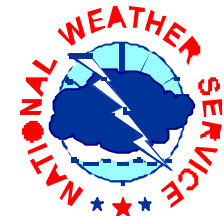
# Purpose



- Provide An Overview Of
  - WSR-88D Level II Data Status
  - WSR-88D Level III Data Status
  - Plans Impacting WSR-88D Level II And Level III External Users
- Answer WSR-88D Data And Product Questions/Suggestions



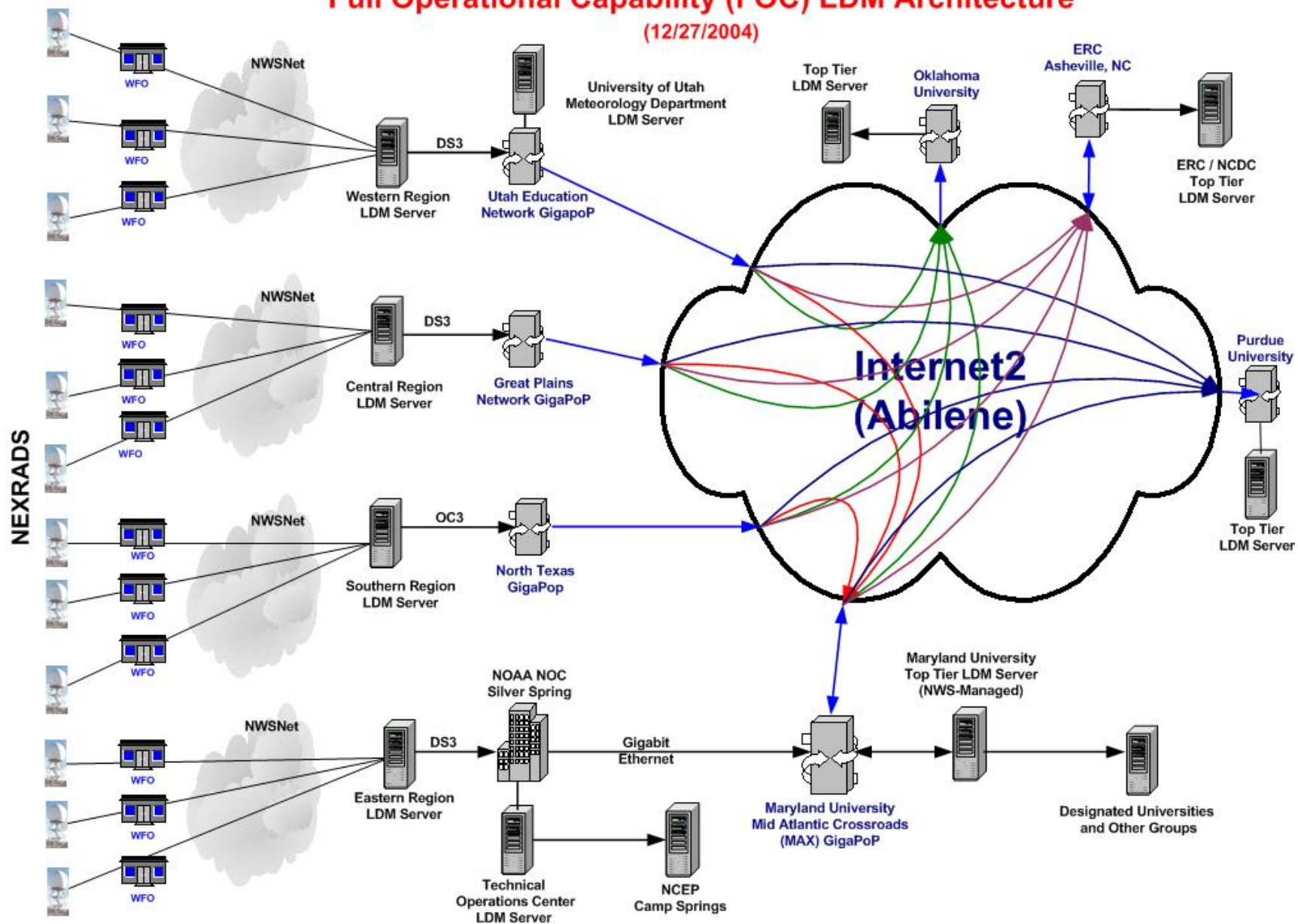
# Level II Data Status

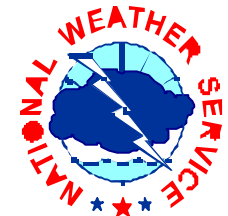


- 121 NWS And 7 DOD Sites On The NWS Level II Network
  - 5 More CONUS DOD Sites Will Be Added By March 2005
- NWS Telecommunications Operations Center (TOC)
  - Monitoring Outages, Twice Daily
  - Serving As Point Of Contact For Notifying Sites Of Outages
- Four Top Tier Sites In Operation
  - University of Oklahoma
  - Purdue University
  - Educational Research Consortium Of The Western Carolinas
  - MAX Gigapop At The University Of Maryland
- Full Operational Capability Architecture In Place

# Level II Radar Distribution Full Operational Capability (FOC) LDM Architecture

(12/27/2004)





# Level II Data Plans

- Add Monitoring Capability For Server At Univ. Of Maryland MAX Gigapop In Mid 2005
  - Provide Real-Time Monitor And Display Of Receipt Of Data
- Examine Cost Effective Methods For Increasing Reliability Of Receipt Of Data
- Change Format Of Level II Data, Metadata File, With Introduction Of Open RDA
  - Beta Test Begins In Late 2005
  - Interface Control Document (ICD) Describing New Format Available In Advance Along With Sample Data Sets

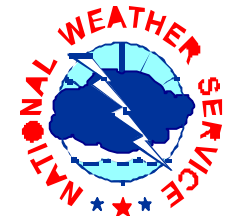


# Level II Data Plans

(Continued)



- Potential Changes To Data Stream Available To External Users, For Example:
  - Addition Of 250 km Reflectivity Data And/Or 0.5 Degree Sampling (circa 2007)
  - Introduction Of Dual Polarization (circa 2008)
  - NWS Will Publicize Interface Control Documents And Implementation Date(s) In Advance
- Add Additional WSR-88D Sites To Network
  - Add San Juan, No Earlier Than Spring 2006
  - No Addition Of Remaining CONUS Sites (8) Or OCONUS Sites (17) To Network Scheduled



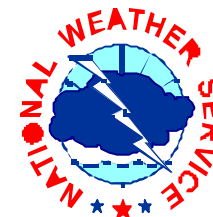
# Level III Data Plans

- Changes To Products Available Via RPCCDS
  - Generation Of Product 37, Composite Reflectivity (16 Data Levels, 0.54 x 0.54 nm Resolution) Added For All Sites And All VCPs In Late 2004
  - Generation Of Product 32, Digital Hybrid Reflectivity (256 Data Levels, 0.54 nm x 1degree Resolution), Will Likely Be Added For All Sites And All VCPs In 2005
- In 2005 Revalidate Requirements For Products Sent To RPCCDS
  - Determine Operational And Archive Government Requirements
  - Plan A Public Announcement For External Users To State Desired Changes, Additions And Deletions
  - Product Stream Limited By Cost, Bandwidth, System Capability – A Likely Trade Of Deleted Products With Added Products



# Level III Data Plans

(Continued)



- No Introduction Of New VCPs Planned For Next Two Years
- Planning To Implement Software (As Early As Spring 2006) To Automatically Switch Radar From Precipitation Mode To Clear Air Mode As Environment Dictates
- Default Precipitation VCP May Be Changed
  - Desire For More Frequent Updates And Take Advantage Of Increased Lower Elevation Scans Of VCP12
  - Weigh Change Against Demands On Infrastructure
  - NWS Will Provide Users Advance Notice Of Default VCP Policy Change And Expected Bandwidth Impact





# Summary



- Full Operational Capability Of Level II Data Collection And Distribution Network Achieved
- Users To Be Notified In Advance Of Changes To
  - Level II Data Stream Content And Format
  - Level III Data Stream Content And Format
  - Volume Coverage Pattern Default And Automated Control
- Your Questions And Comments Please